

CHULHAN LEE

Work Address

Wireless Networking & Communications Group
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Contact Information

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Education

- Aug. 2004 – present **The University of Texas at Austin** Austin, TX
Ph.D. Student in Electrical and Computer Engineering
Research Advisor: Prof. Sriram Vishwanath
Area: Communications and Network Systems
Expected graduation date: Aug. 2008
Member of WNCG (Wireless Networking and Communications Group)
- Aug. 2002 – May 2004 **The University of Texas at Austin** Austin, TX
Master of Science in Electrical and Computer Engineering (GPA: 3.9/4.0)
- Mar. 1996 – Aug. 2000 **Seoul National University** Seoul, Korea
Bachelor of Science in Electrical Engineering (GPA: 3.73/4.0)

Academic Positions

- Aug. 2004 – present **University of Texas at Austin** Austin, TX
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
Research Assistant (advised by Prof. Sriram Vishwanath)
 - Research of capacity region in multiple-access and broadcast channel
- Jan. 2005 – May 2005 **University of Texas at Austin** Austin, TX
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
Teaching Assistant
 - Information Theory (course number: EE381K)
- Aug. 2004 – Jan. 2005 **University of Texas at Austin** Austin, TX
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
Teaching Assistant
 - Channel Coding (course number: EE381V)
- Aug. 2003 – Jan. 2004 **University of Texas at Austin** Austin, TX
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
Teaching Assistant
 - Probability and Random Processes (course number: EE351K)

Professional Engineering Experience

- Dec. 2005 – **Samsung Electronics Co., Ltd.** Suwon, Korea
Jan. 2006 *Intern*
- Capacity analysis of multiuser MIMO-OFDM communication systems
- Jun. 2004 – **Samsung Electronics Co., Ltd.** Suwon, Korea
Jul. 2004 *Intern*
- Link level simulation of 802.11n
- Jul. 2000 – **Ahnlab Inc., Ltd.** Seoul, Korea
Jun. 2002 *Research Engineer*
- Developed V3Netscan for UNIX, the antivirus solution on SMTP server
 - Developed V3Viruswall for UNIX, the antivirus solution on general UNIX email and web servers
 - Benchmarked various proxy servers using Web Polygraph
- Jul. 1999 – **Samsung Advanced Technology Training Center** Suwon, Korea
Aug. 1999 *Intern*
- Developed phone book system with Application-specific integrated circuit(ASIC)

Research Interests

Wireless communications and communication theory

- Information theory, Multiple-input multiple-output(MIMO) communications, Synchronization, Modulation and demodulation, Channel coding, Code division multiple access (CDMA), Orthogonal frequency division multiplexing(OFDM), Resource management

Honors and Awards

- Mar. 1998 – **College student scholarship from Korea Foundation for Advanced Studies**
Aug. 2000
- Nov. 1994 **Bronze Medal in Korean Mathematical Olympiad**

Conference Publications

1. **C. Lee** and S. Vishwanath, "Cooperative Communication Strategies for Sensor Networks," in *Proc. of IEEE Milcom.*, Oct. 2005.
2. **C. Lee** and S. Vishwanath, "Correlated Sources over a Noisy Channel: Cooperation in the Wideband Limit," submitted to *2007 IEEE International Symposium on Information Theory*, Jan. 2007.

Presentations

1. **C. Lee** and S. Vishwanath, “Capacity of Broadcast Channels with Relative Fading Knowledge,” *IEEE Communication Theory Workshop*, May 2006.
2. **C. Lee**, R. Sengupta and S. Vishwanath (in collaboration with A. Bovik), “Exploring WiMAX and 3GPP LTE Wireless Standards,” *Texas Wireless Summit 2006*, Sept. 2006.

Computer Skill

- Programming Language: C, C++, Fortran, Pascal, Basic
- Hardware Language: Assembly (Motorola 68000, Intel 8086), VHDL
- Algorithm development environments: Matlab, Mathematica, Maple

Language Proficiencies

- Korean: Native fluency
- Standard American English: Fluency in reading, writing, listening and speaking

Visa Status F-1